



5-Inch Black and White TV with AM/FM Radio

Your RCA 5-Inch Black and White TV with AM/FM Radio has many features for easy and convenient TV viewing and radio listening. You can also use your TV/radio to monitor an audio/video source that has audio/video outputs, such as a VCR or camcorder.

Your TV/radio includes these features:

Three Power Sources — lets you operate the TV/radio using internal batteries (not supplied), AC power, or vehicle battery power.

External Audio and Video Input Jacks — let you use the TV/radio to receive external audio and video signals.

Earphone Jack — lets you connect stereo earphones or headphones so you can listen without disturbing others.

External Antenna Jack — lets you connect a standard TV antenna for improved reception.

TV/AV Switch — lets you quickly switch between the TV and audio/video modes.

Telescoping Antenna — you can adjust its length, direction, and angle to receive a sharp, clear picture and the best sound.

WARNING: To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.



CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICE-ABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.



This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.



This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

Preparation

Power Sources

You can power the TV/radio from any of three power sources:

- C batteries (not supplied)
- standard AC power (using the supplied AC adapter)
- vehicle battery power (using the supplied DC power cord)

Using Standard Battery Power

You can power the TV/radio from ten C batteries. For the best performance and longest life, we recommend alkaline batteries. You can also use rechargeable nickel-cadmium batteries. Your local RadioShack store carries a full line of batteries.

Note: If you use rechargeable nickel-cadmium batteries, you need a compatible battery charger, available at your local RadioShack store.

Cautions:

- Use only fresh batteries of the required size and recommended type.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.
- Ensure the TV/radio is off before installing new batteries.

Follow these steps to install batteries.

1. Carefully turn the TV/radio upside-down and gently press the arrow on the battery compartment cover. Push the cover in the direction of the arrow to remove it.
2. Install ten C batteries in the battery compartment as indicated by the polarity symbols (+ and -) marked inside.

Caution: Installing the batteries with incorrect polarity can damage your TV/radio.

3. Replace the cover. Be sure the tab on the cover locks into the slot on the case.

When the TV picture shrinks, replace or recharge the batteries.

Warning: Dispose of old batteries promptly and properly. Do not burn or bury them.

Caution: If you do not plan to use the TV/radio with batteries for a month or more, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

Note: Battery life can vary greatly, depending on how you use your TV/radio.

Using AC Power

Cautions:



You must use a Class 2 power source that supplies 13.5V DC and delivers at least 1000

mA. Its center tip must be set to positive and its plug must fit the TV/radio's **DC 12V** jack. The supplied adapter meets

these specifications. Using an adapter that does not meet these specifications could damage the TV/radio or the adapter.

- Always connect the AC adapter to the TV/radio before you connect it to AC power. When you finish, disconnect the adapter from AC power before you disconnect it from the TV/radio.

To use AC power, connect the supplied AC adapter's barrel plug to **DC 12V** on the back of the TV/radio. Then plug the adapter's other end into a standard AC outlet. When you connect the AC adapter, the batteries automatically disconnect.

Using Vehicle Battery Power

Cautions:



You must use a power source that supplies 12V DC and delivers at least 1000 mA. Its center tip must be set to positive and its plug must fit the TV/radio's **DC 12V** jack. The supplied adapter meets these specifications. Using an adapter that does not meet these specifications could damage the TV/radio or the adapter.

- Always connect the adapter to the TV/radio before you connect it to the power source. When you finish, disconnect the DC adapter from the power source before you disconnect it from the TV/radio.

Follow these steps to power the TV/radio from your vehicle's cigarette-lighter socket using the supplied DC power cord.

1. Make sure the supplied DC power cord's knurled ring is screwed firmly onto its plug.
2. Plug the small end of the supplied DC power cord into the **DC 12V** jack on the back of the TV/radio.
3. Unplug your vehicle's cigarette lighter, and plug the large end of the DC power cord into the cigarette-lighter socket. When you connect the DC power cord, the internal batteries automatically disconnect.

If the TV/radio stops working, check the fuse in the DC power cord (see "Changing the Fuse" on Page 6).

Using an Antenna

Using the Telescoping Antenna

The built-in telescoping antenna provides good reception of FM, VHF, and UHF broadcast signals.

Extend the antenna vertically to its full length for channels 2 to 6 (**VHF-L**) and 14 to 69 (**UHF**).

Extend the antenna to a shorter length for the best reception for channels 7 to 13 (**VHF-H**).

Using an Outdoor Antenna

For improved reception, you can connect a standard outdoor VHF/UHF antenna to the **EXT ANT.** jack on the back of the TV/radio.

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Notes:

- Your local RadioShack store has a wide selection of antennas and adapters.
- For better reception in your vehicle, you can connect a mobile TV antenna (available at your local RadioShack store) to the television's **EXT ANT.** jack.

Connecting an Audio/video Source

You can use your TV/radio to monitor an audio/video source (such as a , camcorder or video cassette player). Connect the audio/video source's output jacks to the **AUDIO INPUT** and **VIDEO INPUT** jacks on the back of the TV/radio.

Using Earphones or Headphones

For private listening, plug a pair of stereo earphones or headphones with a $\frac{1}{8}$ -inch mini-plug (not supplied) into the jack on the left side of the TV/radio.

Listening Safely

To protect your hearing, follow these guidelines when you use earphones or headphones.

- Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable level.
- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.
- Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

Traffic Safety

Do not wear earphones or headphones while operating a motor vehicle or a bicycle. This can create a traffic hazard and could be illegal in some areas.

Even though some earphones and headphones let you hear some outside sounds when listening at normal volume levels, they still can present a traffic hazard.

Operation

TV Operation

1. Rotate **VOLUME** down until it clicks to turn on the TV/radio.
2. Set **RADIO/TV** to **TV**.
3. Set **TV/AV** to **TV** to receive a TV signal, or **AV** to receive signals from an audio/video source connected to the TV/radio's **AUDIO INPUT** or **VIDEO INPUT** jack.
4. Set **UHF/ VHF-H/VHF-L** to the desired band.
UHF — to select the UHF channels (14 to 69)
VHF-H — to select the VHF high channels (7 to 13)
VHF-L — to select the VHF low channels (2 to 6)
5. Turn **TUNING** to the desired station.
6. Adjust the telescoping antenna for the best picture and sound.
7. Turn **BRIGHT**, **CONT.**, and **V-HOLD** on the back side of the TV/radio to adjust the picture as necessary.
BRIGHT — adjust when the picture is too dark or too bright.
CONT. — adjust when the picture contrast is too weak or too strong.
V-HOLD — adjust when the picture rolls up or down.
8. Rotate **VOLUME** to adjust the volume to a comfortable level.
9. To turn off the TV/radio, rotate **VOLUME** up until it clicks.

TV Reception Tips:

- If the image is blurry, unstable or has “snow,” the signal reception might be weak. This can be caused by your location or the telescoping antenna’s position and length.
- Buildings with steel construction can also cause reception problems. Try changing the antenna’s position and length. If this does not help, use an outdoor antenna.
- If the image does not fill the screen during battery power operation, the batteries are weak. Replace or recharge the batteries.

Radio Operation

1. Rotate **VOLUME** down until it clicks to turn on the TV/radio.
2. Set **RADIO/TV** to **RADIO**.
3. Set **AM/FM** to **AM** or **FM**.
4. Turn **TUNING** to the desired station.
5. Rotate **VOLUME** to the desired level.
6. To turn off the TV/radio, rotate **VOLUME** up until it clicks.

Radio Reception Tips:

- Weak FM reception can be caused by your location, the telescoping antenna's position and length, and buildings with steel construction. Try changing the antenna's position and adjusting the length. If this does not help, use an outdoor antenna.
- Weak AM reception might be caused by the distance from the station or by operating the TV/radio in a building with steel construction. The TV/radio has a built-in AM antenna. Turn the TV/radio in different directions for the best reception.

Care

Keep the TV/radio dry; if it gets wet, wipe it dry immediately. Use and store the TV/radio only in normal temperature environments. Handle the TV/radio carefully; do not drop it. Keep the TV/radio away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the TV/radio's internal components can cause a malfunction and might invalidate its warranty.

This TV has been manufactured to the specifications of RadioShack and is covered by a limited warranty from RadioShack. If your TV is not operating as it should, take it to your local RadioShack store or call 1-800-THE-SHACK for assistance.

Changing the Fuse

If the TV/radio does not work while using vehicle battery power, check the fuse by following these steps.

1. Unscrew the knurled ring on the DC power cord and remove the spring to check the fuse.
2. If the fuse is bad, replace it with a 2-amp fuse, available at your local RadioShack store. Do not use a fuse with a different rating.
3. Replace the spring and the knurled ring. Tighten the ring securely.

The FCC Wants You To Know

This TV/radio complies with the limits for a Class B digital device as specified in Part 15 of *FCC Rules*. These limits provide reasonable protection against radio and TV interference in a residential area. However, your TV/radio might cause TV or radio interference even when it is operating properly. To eliminate interference, you can try one or more of the following correctivemeasures:

- Reorient or relocate the receiving antenna
- Increase the distance between this product and the radio or TV
- Use outlets on different electrical circuits for this product and the radio or TV
- Consult your local RadioShack store if the problem still exists.

Specifications

TV System	NTSC-M
Horizontal Resolution	260 Lines
Receiving Channels	Broadcast VHF: 2–13 Broadcast UHF: 14–69
Intermediate Frequency	Picture IF Carrier Frequency: 45.75 MHz Sound IF Carrier Frequency: 41.25 MHz
Radio Frequency	AM: 530–1710 kHz FM: 88–108 MHz
Maximum Sensitivity	VHF: 45 dB μ V max UHF/CATV: 48 dB μ V max
Antenna	VHF/UHF 75-Ohm Unbalanced
Power Source	AC 120V, 60Hz DC 12V, 1000 mA 10 C Batteries
Power Consumption	15 W Maximum
Output Power	1 W
Load Impedance	8 Ohms
Frequency Response	80 Hz–7 kHz (3 dB Bandwidth)
Total Harmonic Distortion (0.5W)	2%
Input Level	Video: 1 Vp-p (75-Ohm Terminated) Audio: 400 mV RMS
Dimensions (HWD)	$6\frac{11}{16} \times 6\frac{1}{8} \times 8\frac{1}{8}$ Inches (170 × 156 × 207 mm)
Weight (without battery compartment)	3 lb, 2 oz (1.4 kg)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations, 200 Taylor Street, 6th Floor, Fort Worth, TX 76102

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**RadioShack Corporation
Fort Worth, Texas 76102**